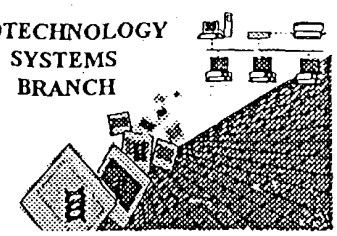
BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/790,768
Source: IFW0
Date Processed by STIC: 3/11/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221
Effective 12/13/03: **TELEPHONE: 571-272-2510; FAX: 571-273-0221**

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<**http://www.uspto.gov/ebc/efs/downloads/documents.htm**> , **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry directly to (EFFECTIVE 12/01/03):** U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. **Federal Express, United Parcel Service, or other delivery service to:** U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03

Raw Sequence Listing Error Summary

ERROR DETECTED | SUGGESTED CORRECTION | SERIAL NUMBER: 10/790,768

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1____Wrapped Nucleics Wrapped Aminos — The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2____Invalid Line Length — The rules require that a line **not exceed** 72 characters in length. This includes white spaces.

3____Misaligned Amino Numbering — The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.

4____Non-ASCII — The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**

5____Variable Length — Sequence(s)____contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6____PatentIn 2.0 "bug" — A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**

7____Skipped Sequences (OLD RULES) — Sequence(s) _____ missing. If intentional, please insert the following lines for **each** skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.

8____Skipped Sequences (NEW RULES) — Sequence(s) _____ missing. If **intentional**, please insert the following lines for **each** skipped sequence.
<210> sequence id number
<400> sequence id number
000

9____Use of n's or Xaa's (NEW RULES) — Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.

10____Invalid <213> Response — Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence

11____Use of <220> — Sequence(s) _____ missing the <220> "Feature" and associated ~~numeric identifiers and responses.~~
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

12____PatentIn 2.0 "bug" — Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13____ Misuse of n/Xaa — "n" can **only** represent a single nucleotide; "Xaa" can **only** represent a single amino acid

IFWO

RAW SEQUENCE LISTING DATE: 03/11/2004
PATENT APPLICATION: **US/10/790,768** TIME: 07:36:47

Input Set : **A:\Sequence Listing for 002877.00028.txt**
Output Set: **N:\CRF4\03112004\J790768.raw**

```
      3 <110> APPLICANT: Karas, Michael
      5 <120> TITLE OF INVENTION: Intracellular delivery of small molecules, proteins, and
nucleic acids
      7 <130> FILE REFERENCE: 002877.00028
C-->  9 <140> CURRENT APPLICATION NUMBER: US/10/790,768
C-->  9 <141> CURRENT FILING DATE: 2004-03-03
      9 <150> PRIOR APPLICATION NUMBER: US 60/451,243
     10 <151> PRIOR FILING DATE: 2003-03-04
     12 <160> NUMBER OF SEQ ID NOS: 25
     14 <170> SOFTWARE: PatentIn version 3.1
     16 <210> SEQ ID NO: 1
     17 <211> LENGTH: 12
     18 <212> TYPE: PRT
     19 <213> ORGANISM: Artificial Sequence
W--> 20 <220> FEATURE:
     21 <223> OTHER INFORMATION: Artificial Sequence
W--> 22 <400> SEQUENCE: 1
     23 Arg Lys Met Leu Lys Ser Thr Arg Arg Gln Arg Arg
     24 1               5                   10
     26 <210> SEQ ID NO: 2
     27 <211> LENGTH: 15
     28 <212> TYPE: PRT
     29 <213> ORGANISM: Artificial Sequence
W--> 30 <220> FEATURE:
     31 <223> OTHER INFORMATION: Artificial Sequence
W--> 32 <400> SEQUENCE: 2
     33 Lys Gly Gly Arg Lys Met Leu Lys Ser Thr Arg Arg Gln Arg Arg
     34 1               5                   10                  15
     36 <210> SEQ ID NO: 3
     37 <211> LENGTH: 6
     38 <212> TYPE: PRT
     39 <213> ORGANISM: Artificial Sequence
W--> 40 <220> FEATURE:
     41 <223> OTHER INFORMATION: Artificial Sequence
W--> 42 <400> SEQUENCE: 3
     43 Lys Lys Lys Arg Lys Val
     44 1               5
     46 <210> SEQ ID NO: 4
     47 <211> LENGTH: 21
     48 <212> TYPE: PRT
     49 <213> ORGANISM: Artificial Sequence
W--> 50 <220> FEATURE:
     51 <223> OTHER INFORMATION: Artificial Sequence
W--> 52 <400> SEQUENCE: 4
```

pp 1-5
Does Not Comply
Corrected Diskette Needed
insufficient response - give source of genetic material (see item 11 on Error Summary Sheet)
same error
same

RAW SEQUENCE LISTING DATE: 03/11/2004
PATENT APPLICATION: **US/10/790,768** TIME: 07:36:47

Input Set : **A:\Sequence Listing for 002877.00028.txt**
Output Set: **N:\CRF4\03112004\J790768.raw**

```
     53 Lys Gly Gly Arg Lys Met Leu Lys Ser Thr Arg Arg Gln Arg Arg Lys
     54 1               5                   10                  15
     55 Lys Lys Arg Lys Val
     56             20
     58 <210> SEQ ID NO: 5
     59 <211> LENGTH: 27
     60 <212> TYPE: PRT
     61 <213> ORGANISM: Artificial Sequence
W--> 62 <220> FEATURE:
     63 <223> OTHER INFORMATION: Artificial Sequence
W--> 64 <400> SEQUENCE: 5
     65 Lys Gly Gly Lys Lys Lys Arg Lys Val Arg Lys Met Leu Lys Ser Thr
     66 1               5                   10                  15
     67 Arg Arg Gln Arg Arg Lys Lys Lys Arg Lys Val
     68             20                  25
     70 <210> SEQ ID NO: 6
     71 <211> LENGTH: 14
     72 <212> TYPE: PRT
     73 <213> ORGANISM: Artificial Sequence
W--> 74 <220> FEATURE:
     75 <223> OTHER INFORMATION: Artificial Sequence
W--> 76 <220> FEATURE:
     77 <221> NAME/KEY: MISC_FEATURE
     78 <222> LOCATION: (1)..(1)
     79 <223> OTHER INFORMATION: Biotin
W--> 80 <400> SEQUENCE: 6
     81 Gly Gly Ala Arg Pro Leu Glu His Gly Ser Asp Lys Ala Thr
     82 1               5                   10
     84 <210> SEQ ID NO: 7
     85 <211> LENGTH: 14
     86 <212> TYPE: PRT
     87 <213> ORGANISM: Artificial Sequence
W--> 88 <220> FEATURE:
     89 <223> OTHER INFORMATION: Artificial Sequence
W--> 90 <220> FEATURE:
     91 <221> NAME/KEY: MISC_FEATURE
     92 <222> LOCATION: (1)..(1)
     93 <223> OTHER INFORMATION: Biotin
W--> 94 <400> SEQUENCE: 7
     95 Gly Gly Gly Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg
     96 1               5                   10
     98 <210> SEQ ID NO: 8
     99 <211> LENGTH: 14
    100 <212> TYPE: PRT
    101 <213> ORGANISM: Artificial Sequence
W--> 102 <220> FEATURE:
    103 <223> OTHER INFORMATION: Artificial Sequence
W--> 104 <220> FEATURE:
    105 <221> NAME/KEY: MISC_FEATURE
```

RAW SEQUENCE LISTING DATE: 03/11/2004
PATENT APPLICATION: **US/10/790,768** TIME: 07:36:47

Input Set : **A:\Sequence Listing for 002877.00028.txt**
Output Set: **N:\CRF4\03112004\J790768.raw**

106 <222> LOCATION: (14)..(14)
107 <223> OTHER INFORMATION: Biotin
W--> **108 <400> SEQUENCE: 8**
109 Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Gly Lys
110 1 5 10
112 <210> SEQ ID NO: 9
113 <211> LENGTH: 14
114 <212> TYPE: PRT
115 <213> ORGANISM: Artificial Sequence
W--> **116 <220> FEATURE:**
117 <223> OTHER INFORMATION: Artificial Sequence
W--> **118 <220> FEATURE:**
119 <221> NAME/KEY: MISC_FEATURE
120 <222> LOCATION: (1)..(1)
121 <223> OTHER INFORMATION: Biotin
W--> **122 <400> SEQUENCE: 9**
123 Gly Gly Gly Tyr Ala Arg Ala Ala Ala Arg Gln Ala Arg Ala
124 1 5 10
126 <210> SEQ ID NO: 10
127 <211> LENGTH: 14
128 <212> TYPE: PRT
129 <213> ORGANISM: Artificial Sequence
W--> **130 <220> FEATURE:**
131 <223> OTHER INFORMATION: Artificial Sequence
W--> **132 <220> FEATURE:**
133 <221> NAME/KEY: MISC_FEATURE
134 <222> LOCATION: (14)..(14)
135 <223> OTHER INFORMATION: Biotin
W--> **136 <400> SEQUENCE: 10**
137 Tyr Ala Arg Ala Ala Ala Arg Gln Ala Arg Ala Gly Gly Lys
138 1 5 10
140 <210> SEQ ID NO: 11
141 <211> LENGTH: 15
142 <212> TYPE: PRT
143 <213> ORGANISM: Artificial Sequence
W--> **144 <220> FEATURE:**
145 <223> OTHER INFORMATION: Artificial Sequence
W--> **146 <220> FEATURE:**
147 <221> NAME/KEY: MISC_FEATURE
148 <222> LOCATION: (15)..(15)
149 <223> OTHER INFORMATION: Biotin
W--> **150 <400> SEQUENCE: 11**
151 Arg Arg Gln Arg Arg Thr Ser Lys Leu Met Lys Arg Gly Gly Lys
152 1 5 10 15
154 <210> SEQ ID NO: 12
155 <211> LENGTH: 15
156 <212> TYPE: PRT
157 <213> ORGANISM: Artificial Sequence
W--> **158 <220> FEATURE:**

RAW SEQUENCE LISTING DATE: 03/11/2004
PATENT APPLICATION: **US/10/790,768** TIME: 07:36:47

Input Set : **A:\Sequence Listing for 002877.00028.txt**
Output Set: **N:\CRF4\03112004\J790768.raw**

```
     159 <223> OTHER INFORMATION: Artificial Sequence
W--> 160 <220> FEATURE:
     161 <221> NAME/KEY: MISC_FEATURE
     162 <222> LOCATION: (1)..(1)
     163 <223> OTHER INFORMATION: Biotin
W--> 164 <400> SEQUENCE: 12
     165 Gly Gly Gly Arg Arg Gln Arg Arg Thr Ser Lys Leu Met Lys Arg
     166 1               5                   10                  15
     168 <210> SEQ ID NO: 13
     169 <211> LENGTH: 14
     170 <212> TYPE: PRT
     171 <213> ORGANISM: Artificial Sequence
W--> 172 <220> FEATURE:
     173 <223> OTHER INFORMATION: Artificial Sequence
W--> 174 <220> FEATURE:
     175 <221> NAME/KEY: MISC_FEATURE
     176 <222> LOCATION: (1)..(1)
     177 <223> OTHER INFORMATION: Biotin
W--> 178 <400> SEQUENCE: 13
     179 Lys Gly Gly Arg Arg Arg Gln Arg Arg Lys Lys Arg Gly Tyr
     180 1               5                   10
     182 <210> SEQ ID NO: 14
     183 <211> LENGTH: 15
     184 <212> TYPE: PRT
     185 <213> ORGANISM: Artificial Sequence
W--> 186 <220> FEATURE:
     187 <223> OTHER INFORMATION: Artificial Sequence
W--> 188 <220> FEATURE:
     189 <221> NAME/KEY: MISC_FEATURE
     190 <222> LOCATION: (1)..(1)
     191 <223> OTHER INFORMATION: Biotin
W--> 192 <400> SEQUENCE: 14
     193 Lys Gly Gly Arg Lys Met Leu Lys Ser Thr Arg Arg Gln Arg Arg
     194 1               5                   10                  15
     196 <210> SEQ ID NO: 15
     197 <211> LENGTH: 14
     198 <212> TYPE: PRT
     199 <213> ORGANISM: Artificial Sequence
W--> 200 <220> FEATURE:
     201 <223> OTHER INFORMATION: Artificial Sequence
W--> 202 <220> FEATURE:
     203 <221> NAME/KEY: MISC_FEATURE
     204 <222> LOCATION: (1)..(1)
     205 <223> OTHER INFORMATION: Biotin
W--> 206 <400> SEQUENCE: 15
     207 Gly Gly Gly Arg Arg Arg Gln Arg Arg Lys Lys Arg Gly Tyr
     208 1               5                   10
     210 <210> SEQ ID NO: 16
     211 <211> LENGTH: 15
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RAW SEQUENCE LISTING DATE: 03/11/2004
PATENT APPLICATION: **US/10/790,768** TIME: 07:36:47

Input Set : **A:\Sequence Listing for 002877.00028.txt**
Output Set: **N:\CRF4\03112004\J790768.raw**

```
     212 <212> TYPE: PRT
     213 <213> ORGANISM: Artificial Sequence
W--> 214 <220> FEATURE:
     215 <223> OTHER INFORMATION: Artificial Sequence
W--> 216 <220> FEATURE:
     217 <221> NAME/KEY: MISC_FEATURE
     218 <222> LOCATION: (1)..(1)
     219 <223> OTHER INFORMATION: Biotin
W--> 220 <400> SEQUENCE: 16
     221 Gly Gly Gly Arg Lys Met Leu Lys Ser Thr Arg Arg Gln Arg Arg
     222 1               5                   10                  15
     224 <210> SEQ ID NO: 17
     225 <211> LENGTH: 15
     226 <212> TYPE: PRT
     227 <213> ORGANISM: Artificial Sequence
W--> 228 <220> FEATURE:
     229 <223> OTHER INFORMATION: Artificial Sequence
W--> 230 <220> FEATURE:
     231 <221> NAME/KEY: MISC_FEATURE
     232 <222> LOCATION: (1)..(1)
     233 <223> OTHER INFORMATION: Biotin
W--> 234 <400> SEQUENCE: 17
     235 Lys Gly Gly Arg Arg Gln Arg Arg Thr Ser Lys Leu Met Lys Arg
     236 1               5                   10                  15
     238 <210> SEQ ID NO: 18
     239 <211> LENGTH: 19
     240 <212> TYPE: PRT
     241 <213> ORGANISM: Artificial Sequence
W--> 242 <220> FEATURE:
     243 <223> OTHER INFORMATION: Artificial Sequence
W--> 244 <220> FEATURE:
     245 <221> NAME/KEY: MISC_FEATURE
     246 <222> LOCATION: (1)..(1)
     247 <223> OTHER INFORMATION: Biotin
W--> 248 <400> SEQUENCE: 18
     249 Lys Gly Gly Lys Lys Lys Arg Lys Val Met Leu Lys Ser Thr Arg Arg
     250 1               5                   10                  15
     252 Gln Arg Arg
     255 <210> SEQ ID NO: 19
     256 <211> LENGTH: 21
     257 <212> TYPE: PRT
     258 <213> ORGANISM: Artificial Sequence
W--> 259 <220> FEATURE:
     260 <223> OTHER INFORMATION: Artificial Sequence
W--> 261 <220> FEATURE:
     262 <221> NAME/KEY: MISC_FEATURE
     263 <222> LOCATION: (1)..(1)
     264 <223> OTHER INFORMATION: Biotin
W--> 265 <400> SEQUENCE: 19
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The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

VERIFICATION SUMMARY DATE: 03/11/2004
PATENT APPLICATION: **US/10/790,768** TIME: 07:36:48

Input Set : **A:\Sequence Listing for 002877.00028.txt**
Output Set: **N:\CRF4\03112004\J790768.raw**

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:20 M:283 W: Missing Blank Line separator, <220> field identifier
L:22 M:283 W: Missing Blank Line separator, <400> field identifier
L:30 M:283 W: Missing Blank Line separator, <220> field identifier
L:32 M:283 W: Missing Blank Line separator, <400> field identifier
L:40 M:283 W: Missing Blank Line separator, <220> field identifier
L:42 M:283 W: Missing Blank Line separator, <400> field identifier
L:50 M:283 W: Missing Blank Line separator, <220> field identifier
L:52 M:283 W: Missing Blank Line separator, <400> field identifier
L:62 M:283 W: Missing Blank Line separator, <220> field identifier
L:64 M:283 W: Missing Blank Line separator, <400> field identifier
L:74 M:283 W: Missing Blank Line separator, <220> field identifier
L:76 M:283 W: Missing Blank Line separator, <220> field identifier
L:80 M:283 W: Missing Blank Line separator, <400> field identifier
L:88 M:283 W: Missing Blank Line separator, <220> field identifier
L:90 M:283 W: Missing Blank Line separator, <220> field identifier
L:94 M:283 W: Missing Blank Line separator, <400> field identifier
L:102 M:283 W: Missing Blank Line separator, <220> field identifier
L:104 M:283 W: Missing Blank Line separator, <220> field identifier
L:108 M:283 W: Missing Blank Line separator, <400> field identifier
L:116 M:283 W: Missing Blank Line separator, <220> field identifier
L:118 M:283 W: Missing Blank Line separator, <220> field identifier
L:122 M:283 W: Missing Blank Line separator, <400> field identifier
L:130 M:283 W: Missing Blank Line separator, <220> field identifier
L:132 M:283 W: Missing Blank Line separator, <220> field identifier
L:136 M:283 W: Missing Blank Line separator, <400> field identifier
L:144 M:283 W: Missing Blank Line separator, <220> field identifier
L:146 M:283 W: Missing Blank Line separator, <220> field identifier
L:150 M:283 W: Missing Blank Line separator, <400> field identifier
L:158 M:283 W: Missing Blank Line separator, <220> field identifier
L:160 M:283 W: Missing Blank Line separator, <220> field identifier
L:164 M:283 W: Missing Blank Line separator, <400> field identifier
L:172 M:283 W: Missing Blank Line separator, <220> field identifier
L:174 M:283 W: Missing Blank Line separator, <220> field identifier
L:178 M:283 W: Missing Blank Line separator, <400> field identifier
L:186 M:283 W: Missing Blank Line separator, <220> field identifier
L:188 M:283 W: Missing Blank Line separator, <220> field identifier
L:192 M:283 W: Missing Blank Line separator, <400> field identifier
L:200 M:283 W: Missing Blank Line separator, <220> field identifier
L:202 M:283 W: Missing Blank Line separator, <220> field identifier
L:206 M:283 W: Missing Blank Line separator, <400> field identifier
L:214 M:283 W: Missing Blank Line separator, <220> field identifier
L:216 M:283 W: Missing Blank Line separator, <220> field identifier
L:220 M:283 W: Missing Blank Line separator, <400> field identifier
L:228 M:283 W: Missing Blank Line separator, <220> field identifier
L:230 M:283 W: Missing Blank Line separator, <220> field identifier
L:234 M:283 W: Missing Blank Line separator, <400> field identifier

VERIFICATION SUMMARY DATE: 03/11/2004
PATENT APPLICATION: **US/10/790,768** TIME: 07:36:48

Input Set : **A:\Sequence Listing for 002877.00028.txt**
Output Set: **N:\CRF4\03112004\J790768.raw**

L:242 M:283 W: Missing Blank Line separator, <220> field identifier
L:244 M:283 W: Missing Blank Line separator, <220> field identifier
L:248 M:283 W: Missing Blank Line separator, <400> field identifier
L:259 M:283 W: Missing Blank Line separator, <220> field identifier